

Technical Specifications

Principle	Immunoturbidimetry & Nephelometry
Test Method	Transmission and scattering of light
Sample Type	Venous blood / Peripheral Plasma / Serum / Urine / CSF
Reagent position	2
Pre-warming position	4
Testing position	1
Storage	5000 results
Display	LCD touch screen
Connectivity	Rs232
Printer	Inbuilt thermal printer
Operating conditions	
Temperature	10°C ~ 35°C
Humidity	≤ 90%
Input Supply	Adaptor - 12Vdc, 60W max
Reaction Temperature	37 ± 0.5°C
Quality Controls	Daily and Monthly for 3 levels with LJ Graph
Dimension	280 (W) X 240 (L) X 147 (H)

Self-Reliant system to achieve excellence in IT segment



Test Parameters

Sr. No.	Specification Parameter	Pack Size
1	ASO	25 T
2	CRP	25 T
3	HbA1c	25 T
4	RF	25 T
5	APOA1*	25 T
6	APOB*	25 T
7	uALB*	25 T
8	CYS C*	25 T

Sr. No.	Specification Parameter	Pack Size
9	C3*	25 T
10	C4*	25 T
11	D-DIMER*	25 T
12	FER*	25 T
13	IgA*	25 T
14	IgG*	25 T
15	IgM*	25 T
16	IgE*	25 T

* : Upcoming Parameters

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NEPHELOMETRY

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PLAN WITH PRECISION**

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PROVISO - SMART NEPHELOMETRY

Smart Calibration

- Smart Calibration through insertion of RFID card in the defined slot
- Pre - Programmed test - parameters also included in the RFID card

Smart Analysis

- Self explanatory instruction on touch screen
- Provision of accurate linkage pipettor

User Friendly Communication

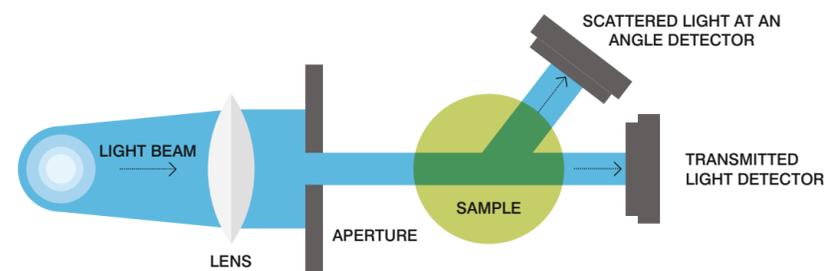
- Easy touch screen operation RS 232 port interface of Proviso with computer

Output & Storage

- Inbuilt Thermal Printer
- Storage : 5000 Results

PROVISO - TESTING WITH PRECISION

- Proviso is a Specific Protein Analyzer with Transmission and Scattering testing methods.



- Nephelometry directly measures the intensity of light scattered which is proportional to the amount of particles in the solution.
- Proviso incorporates both turbidimetric & Nephelometric testing methods.
- Turbidimetry measures the intensity of the light transmitted which is inversely proportional to the amount of complexes formed.

PROVISO

SEE THE DIFFERENCE

The central image shows the Proviso analyzer with a circular diagram highlighting its key features: Pre-calibrated Card, Automated Mixing, Dual Technology Optics, Defined No. of Tests, and Disposable Cuvettes. Below the analyzer, a list of kit contents is provided: Reagent, RFID Card, 25 Disposable Cuvettes, Control, and Kit Insert.

- Step 1** Insert RFID Card
- Step 2** Insert R1 + Sample & read
- Step 3** Insert R2 and read results

Unique Features	Benefits
Pre calibrated RFID card	Saving reagents, time and eliminating manual errors
Automated Vortex Mixer	Homogeneous Ag-Ab solution preparation ensures accuracy of results
Dual technology optics	More sensitive and accurate
Defined No. of tests	Inventory management
Disposable Cuvettes	Ensures no carryover effects

PROVISO - SEE THE DIFFERENCE

Features	Conventional Turbidimetry	ProVISO™ Benefits
Programming	The kits have to be programmed on the analyser by the user.	Lot specific programming on the card.
Mixing	Mixing time and degree of mixing varies from person to person leading to imprecise results	Mixing time and degree of mixing is controlled through technology enhancing precision
Delay after addition of sample/starter reagent	DELAY time varies due to difference in mixing & pipetting techniques. The delay of first reading can vary between 5-15 seconds. In fast reacting chemistries half the reaction would be over in the first 5-15 seconds. In samples with high analyte concentrations this can lead to significant variations in test results	Initiation of DELAY time is accurate as it is done with Electronic Pipette. Therefore the results are accurate.
Calibration	<ul style="list-style-type: none"> • High calibration cost • Time consuming activity • Inconvenience to perform multipoint calibration • Manual error during calibration by using old calibration data 	Lot specific master calibration curve provided with every kit. Saves calibration cost helps prevent the misuse of inter lot calibration.
RFID Card	<p>Kits have to be programmed and calibrated and then samples can be tested</p> <p>↓</p> <p>Reagent is taken in test tube or cuvette</p> <p>↓</p> <p>Incubate</p> <p>↓</p> <p>Sample need to be added and mix well</p> <p>↓</p> <p>Then aspirated (If aspiration mode) After getting the result flowcell has to be washed immediately to minimize the carryover</p> <p>↓</p> <p>Reading is initiated</p>	<p>Lot and Assay specific RFID Card provided with each card</p> <p>↓</p> <p>The laboratories does not have to prepare the calibration curve and programming of the assay</p> <p>↓</p> <p>RFID based testing eliminate person to person variations caused during aspirations, mixing and reading time of Ag-Ab reactions.</p> <p>↓</p> <p>Assays are completely under analyzer control thereby leading precision</p>